

Enhanced Subsurface Membrane Interface Probe (MIP)

Abstract of the Invention

An enhanced membrane interface probe (MIP) is disclosed including: a modular membrane interface probe (MIP) sensor constructed from a plurality of modular components allowing field serviceable replacement of any malfunctioning components of the plurality of modular components. The modular MIP can include: an external barrel having a cavity; or (or throughout means and/or, i.e., a logical or operation) an inner core barrel assembly field-insertable into the cavity having a heater cavity, where the heater cavity is adapted to receive a field-insertable removable cartridge heating element. The modular MIP can include a removable conductivity nose assembly, a field-insertable removable cartridge heating element, or a waterproof electrical connector and/or an o-ring seal.

DC2/486117